SECTION G - MISCELLANEOUS STRUCTURE

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SECTION G - MISCELLANEOUS STRUCTURES

I. INTRODUCTION

A wide variety of miscellaneous structures have been designed for individual site conditions. Several that lend themselves to repeated use are included for consideration by the designer.

II. WATER LEVEL GAGE

Both the treated timber and the steel water level gage, are set flush with the upstream surface of the embankment. Elevation or stage markings should be delayed until the initial embankment settlement has taken place.

III. INTAKE STRUCTURE

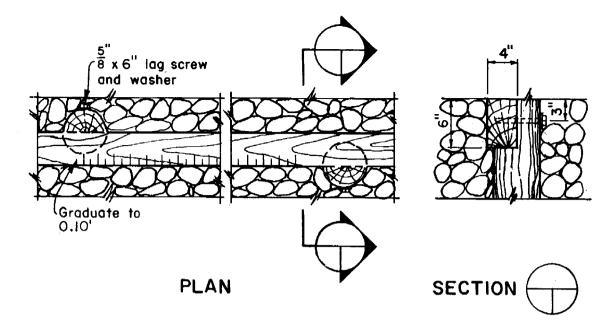
The pylon type gate lift (Figure G-3) is not recommended for conditions where icing is severe. Access to the pylon is by boat during most reservoir stage.

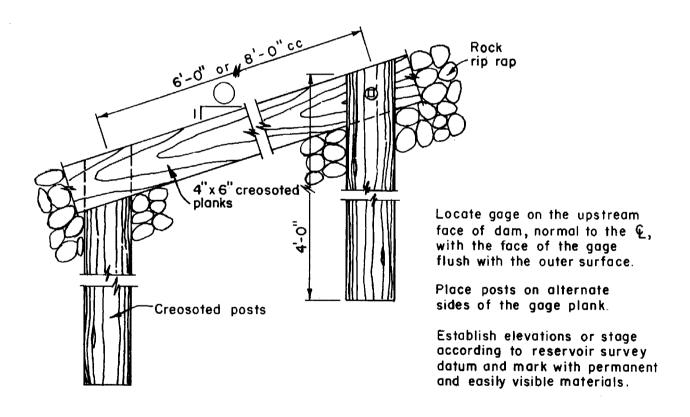
IV. TIMBER CATWALK

This installation is not recommended for conditions where icing is severe. Figure G-4 provides a fast approximate cost used for alternate comparison. Although the catwalk width is only 2 feet, the basic data will allow for width increase more desirable for recreational purposes. See Figure H-3 for typical layout detail for the construction drawing. A handrail is recommended and can be added by extending the decking at about 8 foot centers to provide brace support for the handrail posts.

V. INLET-OUTLET BOX

Figures G-5 and G-6 provide both details and proportions for a small reservoir inlet-outlet box. The reservoir is filled by pumping during off peak periods. A combination of pumping and reservoir discharge can be used for peak requirements.

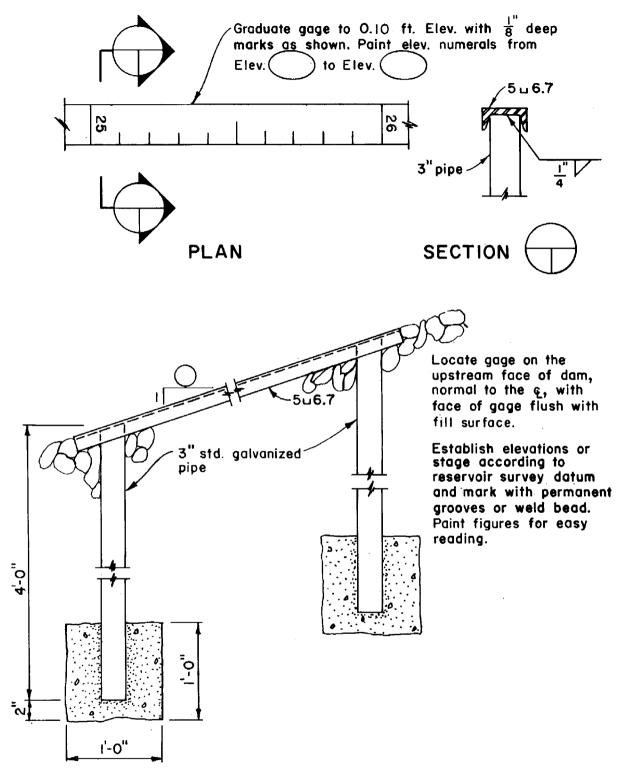




ELEVATION

WATER LEVEL GAGE

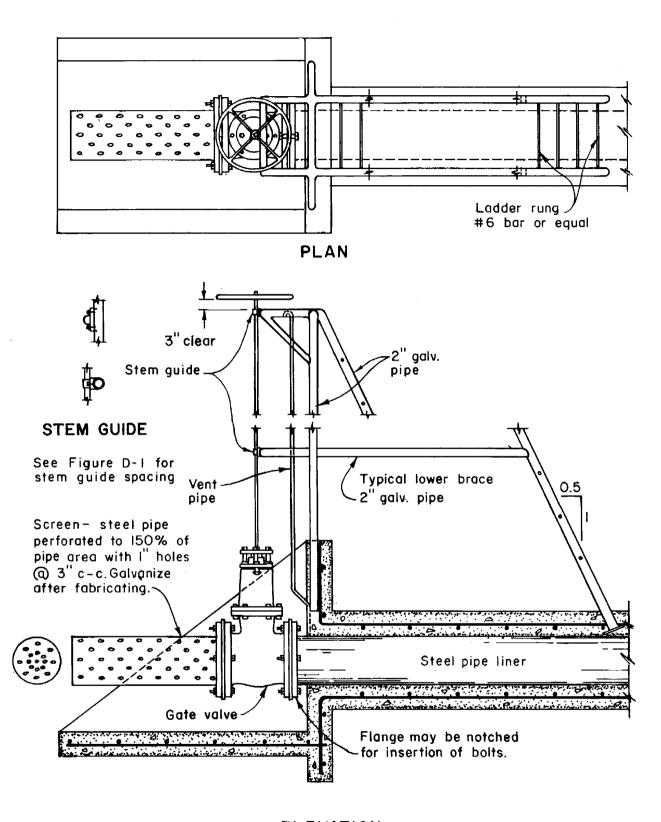
FIGURE G-I RESERVOIR WATER LEVEL GAGE



ELEVATION

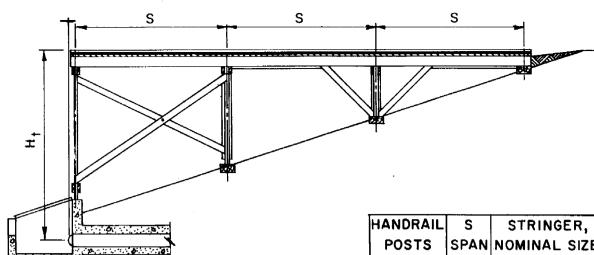
WATER LEVEL GAGE

FIGURE G-2
RESERVOIR
WATER LEVEL GAGE



ELEVATION

FIGURE G-3 INLET STRUCTURE WITH STRAINER AND PYLON GATE LIFT



Notes:

- I. Multiple story bents to be used for heights in excess of 14'-0".
- Costs do not include mechanical features of the gate system.
- 3. Allowable working stress, f=1200 p.s.i.
- 4. Timber quantity includes substructure and deck.

HANDRAIL	S	STRINGER,
POSTS	SPAN	NOMINAL SIZE
ı	8'	2"x 6"
2	10	2 x 8
2	12	2 x 10
2	14	2 x 12
2	16	2 x 12
3	18	3 x 12
3	20	3 x 12

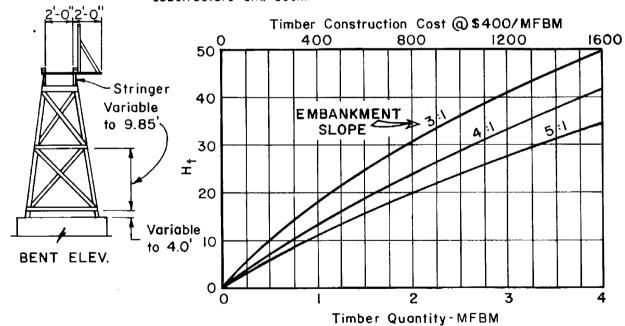


FIGURE G-4
TIMBER CATWALK:
STRINGER SIZE, AND COST

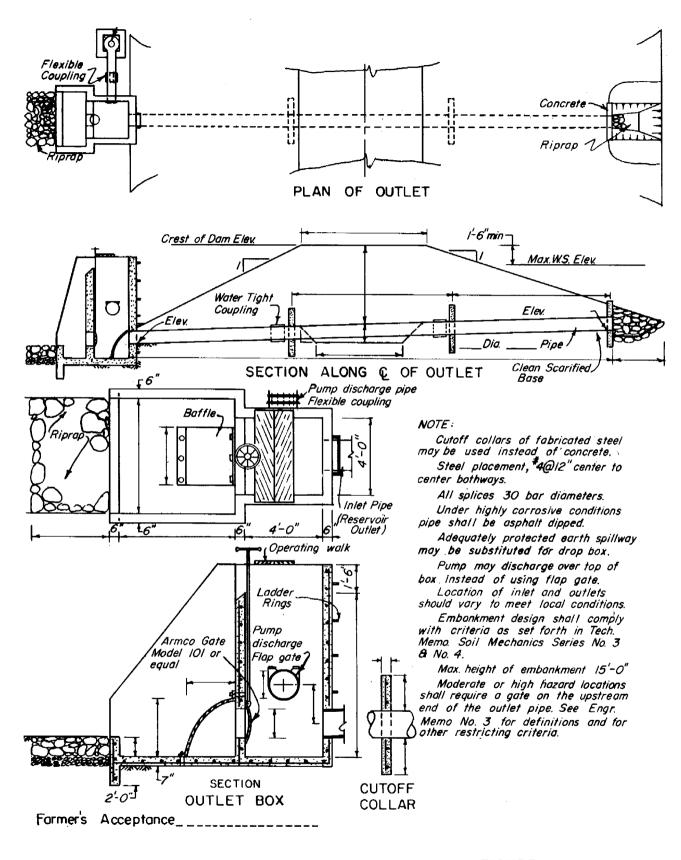


FIGURE G-5

OVERNIGHT STORAGE RESERVOIR INLET-OUTLET BOX

EWP Unit Portland, Oregon

REFERENCE: 7- L-20090

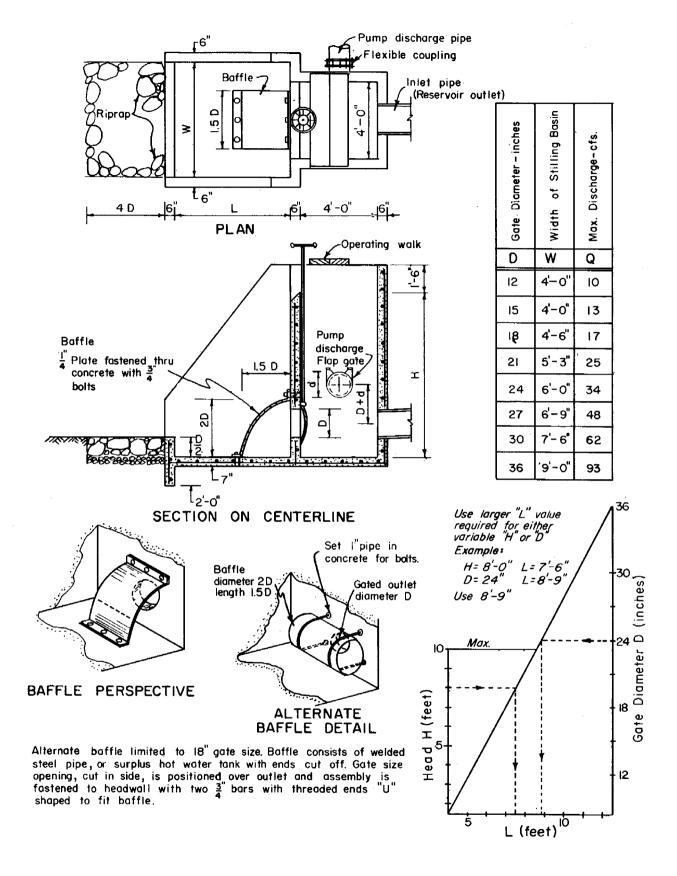


FIGURE G-6

OVERNIGHT STORAGE RESERVOIR INLET-OUTLET BOX